

SUMMARY AND QUALIFICATIONS

Experienced in mechanical engineering with a strong emphasis in HVAC system. Responsible for analyses, design and implementation of various HVAC, control and automation engineering changes for various buildings, structures and components. Provided project management support, field presence, quality assurance, and coordination of various multidisciplinary projects.

EDUCATION & TECHNICAL TRAININGS

- Master of Engineering Management, Minor in Business. December 2018
University of Nebraska-Lincoln
- Bachelor of Science in Mechanical Engineering August 2015
University of Nebraska-Lincoln
- Sales Engineering Training Certification September 2018
Carrier University
- LEED GA Certification October 2018 U.S. Green Building Council

Project Engineer & External Affairs Chair

August 2013-May 2015

Society of Automotive Engineers (Formula SAE) at the University of Nebraska Lincoln, Lincoln, NE

Responsible for the planning, conception, design, fabrication, development of small formula-style vehicles for competition.

- Managed external affairs for student organization such as transportation, logistics and hotel reservation.
- Designed components of chassis, fuel tank and various components of the body as needed.
- Implemented conceptual designs to build automotive components for the formula car.

PROFESSIONAL EXPERIENCE

HVAC Mechanical Engineer

Jun 2019 – May 2020

Kiewit, Lenexa, KS

Mechanical Engineer responsible for HVAC, control, automation and plumbing for construction buildings, warehouses and various industrial facilities. Core job functions included, but were not limited to:

- Developed change packages, calculations and analyses for HVAC systems in accordance with engineering specifications, plan requirements, & other applicable standards (e.g. ASHRAE) or other building codes.
- Performed (mechanical) engineering evaluations (e.g. load calculations) in support of daily operational activities for engineering and field engineering (construction) team.
- Prepared and assisted in contract development and proposals, as well as bidding and contract awards.
- Reviewed various RFP documents, prepared estimates, and generated ad-hoc technical documents.
- Reviewed (3D) models, sketches, drawings, and contractor documents during conceptual study,

feasibility & constructability, final and implementation phase; and ensured coordination of shop drawings and other relevant technical documents and equipment (from design to close-out phases) were up-to-date.

Wheeled Vehicle Mechanic**January 2015 - Present****443rd Transportation Company, US Army Reserve****Lincoln, NE**

Part-time mechanical technician for the Army Reserve and is responsible for light and heavy-wheel vehicles. Duties included, but were not limited to:

- Supervise, maintain and assist in recovery operations on wheeled vehicles & other select armored vehicles.
- Service automotive electrical systems including wiring harness, starting and charging systems.
- Perform hydraulics systems and pneumatics equipment installation and repair.
- Leads platoons in maneuvers for nationwide missions and ensures soldiers are up to date with their training.

Sales Engineer**November 2017 – June 2019****CARRIER Enterprise****Lenexa, KS**

Primarily responsible for design support, and application engineering-related tasks for one of the nation's leading HVAC manufacturers. Essential job functions included, but were not limited to:

- Assisted district team in the successful acquisition of \$16M revenue (from the competition).
- Provided HVAC technical solutions and recommendations that met customers' demand or code requirements.
- Built, maintained the relationship with pre-established customer network, and acquired new ones.
- Prepared, reviewed and supervised planning and maintenance work
- Performed load calculations using HAP software, and other mathematical computations.
- Provided HVAC, plumbing or control system technical expertise, with assistance for proper equipment selection.
- Other tasks as assigned by supervision (e.g. proposals or training material creation, etc.).

Biomedical Equipment Engineer**April 2016 - November 2017****SODEXO Clinical Technology Management at Nebraska Medicine****Omaha, NE**

Responsible for procurement, installation, and maintenance of biomedical instruments, and acted occasionally as a project manager. Core job functions included, but were not limited to:

- Responsible for Preventive Action/Corrective Maintenance, Quality Assurance, Emergency

Coverage, Inventory and Asset Management.

- Improved special test setups required to conduct functional checks of biomedical test equipment.
- Coordinated special projects to upgrade monitoring equipment and trained staff accordingly.
- Used analytical skills and organizational tools to successfully supervise network installation, and other complex biomedical equipment, and managed other long-term and short term projects.
- Other relevant engineering tasks as assigned (e.g. mentorship, training new staff).

Mechanical Engineering Researcher

January 2014 - May 2015

UNL Undergraduate Creative Activities and Research Experience (UCARE)

Lincoln, NE

Responsible for variety of researches in Fluid Dynamics (e.g. Study for Perfect Dispense System).

- Received grant for project working directly with faculty at UNL and UCARE.
- Predicted behavior of fluids using Computational Fluid Dynamics simulations.
- Improved production efficiency by 20% with new food dispenser conceptual design.

TECHNICAL TRAINING/RELEVANT SKILLS

Safety – Quality – Performance Highlights:

- OSHA, Safety programs compliance
- Quality management & Strategic/Resource Planning
- Cost Control and Forecasts,
- Procurement & Process Optimization

Software Application:

- Microsoft Office Suite, Microsoft Outlook, Microsoft Project, Excel, Bleubeam
- Revit, Navisworks, SolidWorks, AutoCAD software

Carrier's HAP Software Language:

- English & French, Written & Spoken - Fluent Leve

COMMUNITY INVOLVEMENT

- External Affairs Chair, Society of Automotive Engineers (Formula SAE) August 2013-May 2015
- Treasurer Chair, National Society of Black Engineers (NSBE) August 2014-May 2015